

Montana
Water Policy Interim Committee
(October 25, 2007)

Case Study Update


John Metesh
Montana Bureau of Mines and Geology

FileEditViewHistoryBookmarksToolsHelp

http://mbmggwic.mtech.edu/

Google

Getting StartedLatest Headlines




Ground-Water Information Center
Montana Bureau of Mines and Geology
Montana Tech of The University of Montana
1300 West Park Street - Main Hall 314
Butte Montana 59701-8997

10/20/2007

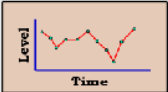
HomeWell DataReportsDrillerWebDNRCHelp

Drought Reportsmore reports

[Download](#) an Adobe Acrobat file that discusses how aquifers respond to climatic conditions. The document also includes statistics about how wells in Montana's statewide monitoring network are responding to the current drought. **Updated to June 2006** (3.8 MB).



Statewide Monitoring Network



GWIC features current hydrographs for wells that are being measured regularly by MBMG and its cooperators. Click the picture to the left to view data collected by the Statewide Monitoring Program. Data from other MBMG projects are available through the [SWL Menu](#) after you sign in.

[View a list](#) of statewide monitoring network wells. The listing is by number of wells per county.

County-wide Statisticsmore reports

View statistical overviews of the well data in individual counties. Select the county name from the drop-down box to the right and click the **Go!** button.

BEAVERHEAD

Go!

Sign In Status: Signed Out

Enter your User Id and Proposed Data Use. Click **Sign In** to access GWIC's online services.

If you do not have a User Id, click [create one here](#).

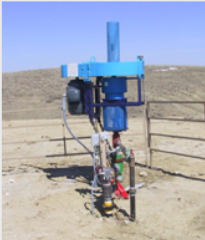
User Id:

Data Use:

Ground-Water Research

Sign In

Coalbed Methane GW Monitoring Network



MBMG operates the Montana Powder River Regional Coalbed methane ground-water monitoring network of springs and wells. Data for this program plus site specific research such as coalbed methane infiltration pond studies can be viewed online, or downloaded from GWIC. Click on the picture to access the MBMG coalbed methane project data.

A little about us

The Ground-Water Information Center (GWIC) at the Montana Bureau of Mines and Geology (MBMG) is the central repository for information on the ground-water resources of Montana. The data include well-completion reports from drillers, measurements of well performance and water quality based on site visits, water-level measurements at various wells for periods of up to 60 years, and water-quality reports for thousands of samples. The databases at GWIC are continually updated with new data from driller's logs, MBMG research projects, and research projects from other agencies.

Other sites of interest

- [DNRC](#) - Department of Natural Resources and Conservation
- [NRRIS](#) - Natural Resource Information System (Montana State Library)

Ground-Water Information Center Online 1998 - 2007
[Staff](#) | [Privacy Statement](#)

Done

File Edit View History Bookmarks Tools Help

http://mbmggwic.mtech.edu/sqlserver/v11/menus/menuProject.asp

Getting Started Latest Headlines

AREA 3 - CHARACTERIZATION OF THE MIDDLE YELLOWSTONE RIVER AREA: TREASURE AND YELLOWSTONE COUNTIES (GWCP03)

AREA 4 - CHARACTERIZATION OF THE LOLO-BITTERROOT AREA: MINERAL, MISSOULA, AND RAVALLI COUNTIES (GWCP04)

AREA 5 - CHARACTERIZATION OF THE UPPER CLARK FORK RIVER AREA: DEER LODGE, GRANITE, POWELL, AND SILVER BOW COUNTIES (GWCP05)

AREA 6 - CHARACTERIZATION OF THE CLARK'S FORK OF THE YELLOWSTONE RIVER AREA: CARBON AND STILLWATER COUNTIES (GWCP06)

AREA 7 - CHARACTERIZATION OF THE GIANT SPRINGS AREA: CASCADE AND TETON COUNTIES (GWCP07)

GWCP06 SPECIAL PROJECT ON THE WEST BENCH OF RED LODGE, MONTANA. FIELD VISIT DATA ARE PART OF GWCP06. (WBRLGWCP06)

House Bill 831 Project Data

Project Name	Site Data	Site Visit Data	Water Quality Data	Isotope Data	Water Level Data	Photo Data
COTTOM SEED INC. (COTTOM)	●	●	●		●	
DONALD DALLASERRA RANCH (DALASERA)	●	●	●		●	
GEODUCK LAND AND LIVESTOCK DATA COMPILATION (GEODUCK)	●	●	●		●	
HOUSE BILL 831 CLOSED BASIN DATA COMPILATION (HB831)	●	●	●		●	
SITZ ANGUS RANCH (SITZRNCH)	●	●	●		●	

Regional Water Resource Investigations

Project Name	Site Data	Site Visit Data	Water Quality Data	Isotope Data	Water Level Data	Photo Data
NORTHERN BIGHORN RIVER VALLEY, CRITICAL RESOURCE ASSESSMENT (BHORN)	●	●	●	●	●	

Reports and Maps

Project Name	Site Data	Site Visit Data	Water Quality Data	Isotope Data	Water Level Data	Photo Data
DATA CONTAINED IN MBMG BULLETIN 19. WORK DONE BY U.S. GEOLOGICAL SURVEY. (BULL-19)	●		●			
DATA CONTAINED IN MBMG BULLETIN 60. WORK DONE BY U.S. GEOLOGICAL SURVEY. (BULL-60)	●		●		●	
DATA CONTAINED IN MBMG BULLETIN 50A. WORK DONE BY U.S. GEOLOGICAL SURVEY. (BULL50A)	●		●		●	
DATA FOR GEOTHERMAL SITES IN MONTANA (MBMG)						

Done

Done

Other Options

[Plot this site on a topographic map](#)
[View hydrograph for this site](#)
[View scanned document \(10/9/2007 6:40:15 PM\)](#)

Section 7: Well Test Data

Section 1: Well Owner

Owner Name

GEODUCK LAND & CATTLE COMPANY

Mailing Address

600 UNIVERSITY SUITE 2500

City	State	Zip Code
SEATTLE	WA	98101

Section 2: Location

Township	Range	Section	Quarter Sections
05S	07W	28	SW¼ NE¼ SW¼ NW¼
County			Geocode

BEAVERHEAD

Latitude	Longitude	Geomethod	Datum
45.37357	112.48194	MAP	NAD83
Altitude	Method	Datum	Date
4837.26	SURVEY		9/18/2007

Addition	Block	Lot
----------	-------	-----

Section 3: Proposed Use of Water

MONITORING (1)

Section 4: Type of Work

Drilling Method: DUAL ROTARY

Section 5: Well Completion Date

Date well completed: Tuesday, May 04, 2004

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	25	8

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-3	25	8	0.25		THREADED	STEEL
-3	9	1			THREADED	PVC-SCHED 40

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
7	25	8	75	1/8X6	TORCH OR PLASMA CUTS
9	10	1		0.020	FACTORY SLOTTED

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	8	3/8 BENTONITE CHIPS	
8	10	10/20 SILICA SAND	

Done

Total Depth: 10
Static Water Level: 9
Water Temperature:

Air Test *

25 gpm with drill stem set at 23 feet for 1 hours.
Time of recovery 0.15 hours.
Recovery water level 9 feet.
Pumping water level feet.

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Section 8: Remarks

THE MW-01 SET CONSISTS OF THREE PIEZOMETERS INSTALLED WITHIN ONE 8-INCH DIAMETER STEEL CASING SLOTTED BETWEEN 7 AND 25 FT BELOW LAND SURFACE. THIS IS THE RECORD FOR THE SHALLOW PIEZOMETER. THE PRODUCTION RECORD REFLECTS WELL PERFORMANCE PRIOR TO PIEZOMETER INSTALLATION.

Section 9: Well Log

Geologic Source

111ALVM - ALLUVIUM (HOLOCENE)

[illegible]

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:

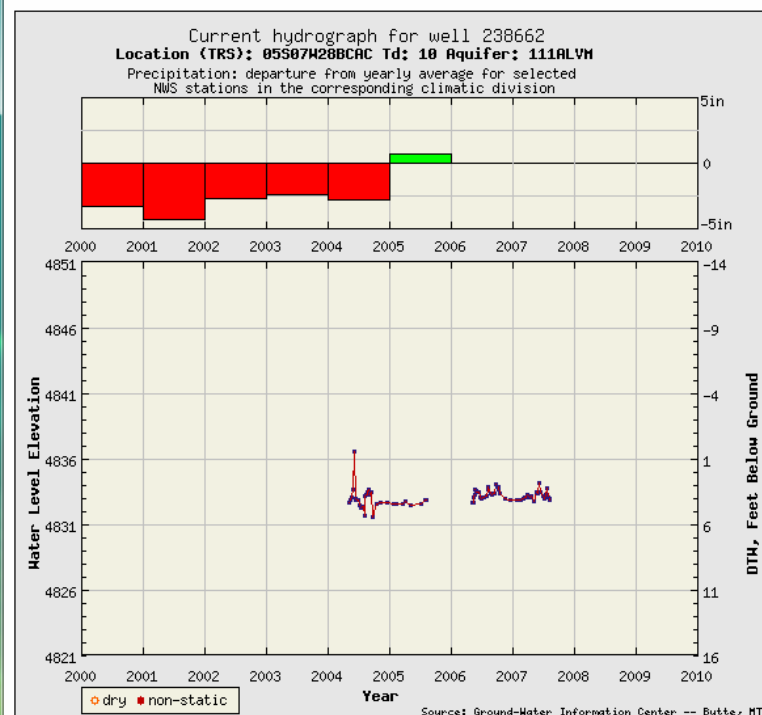
Company: AK DRILLINT

License No: WWC-604

Date Completed: 5/4/2004

Ground-Water Information Center Well Hydrograph

The following chart represents the current hydrograph for this well. Data reported are in feet below ground surface or feet above mean sea level.



GWIC Id: 238662

Site Name: GEODUCK LAND & CATTLE COMPANY * MW-01A (SHALLOW)

Location: 05S07W28BCAC

Total Depth: 10 feet

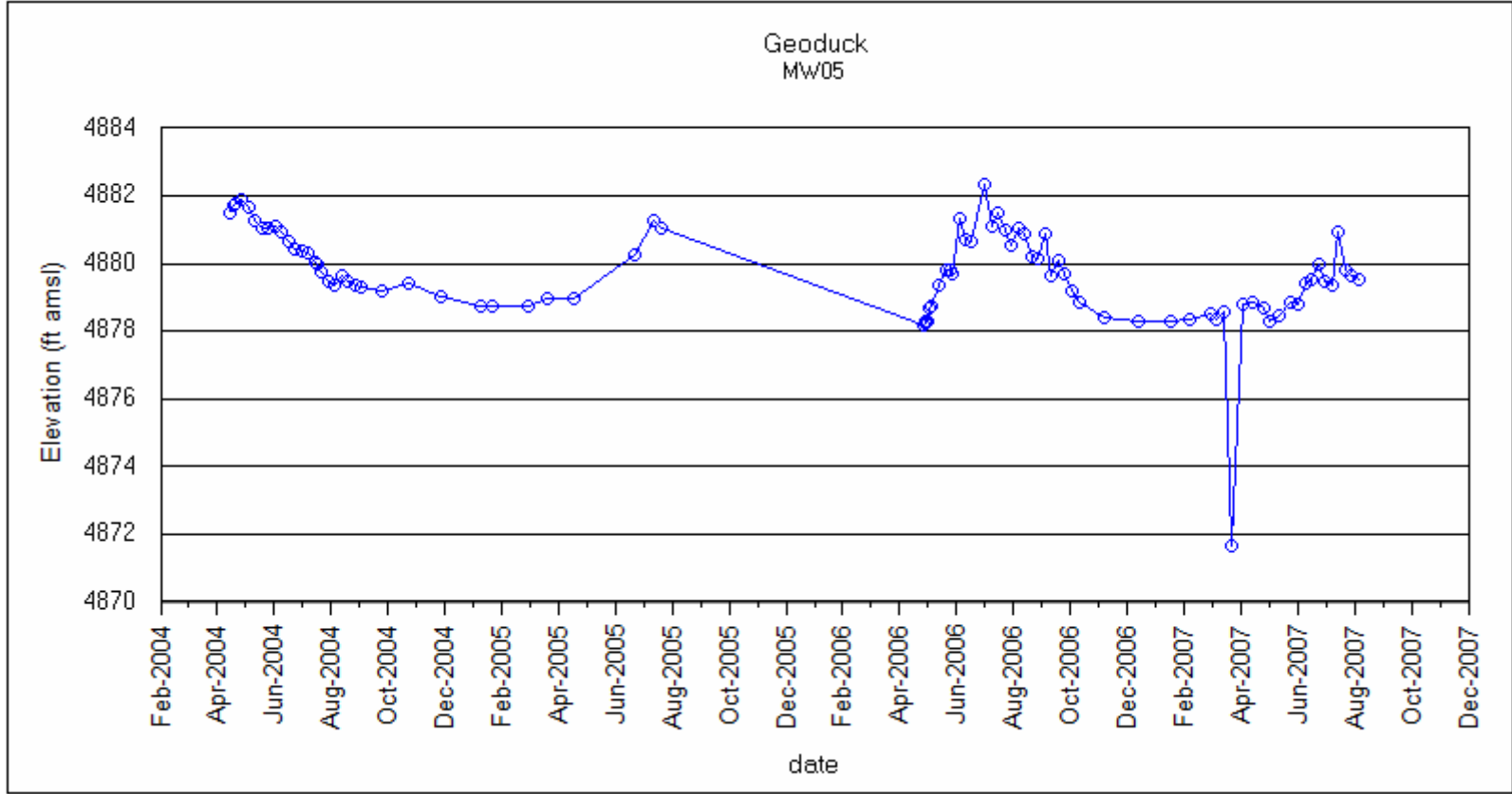
Number of Measurements: 83

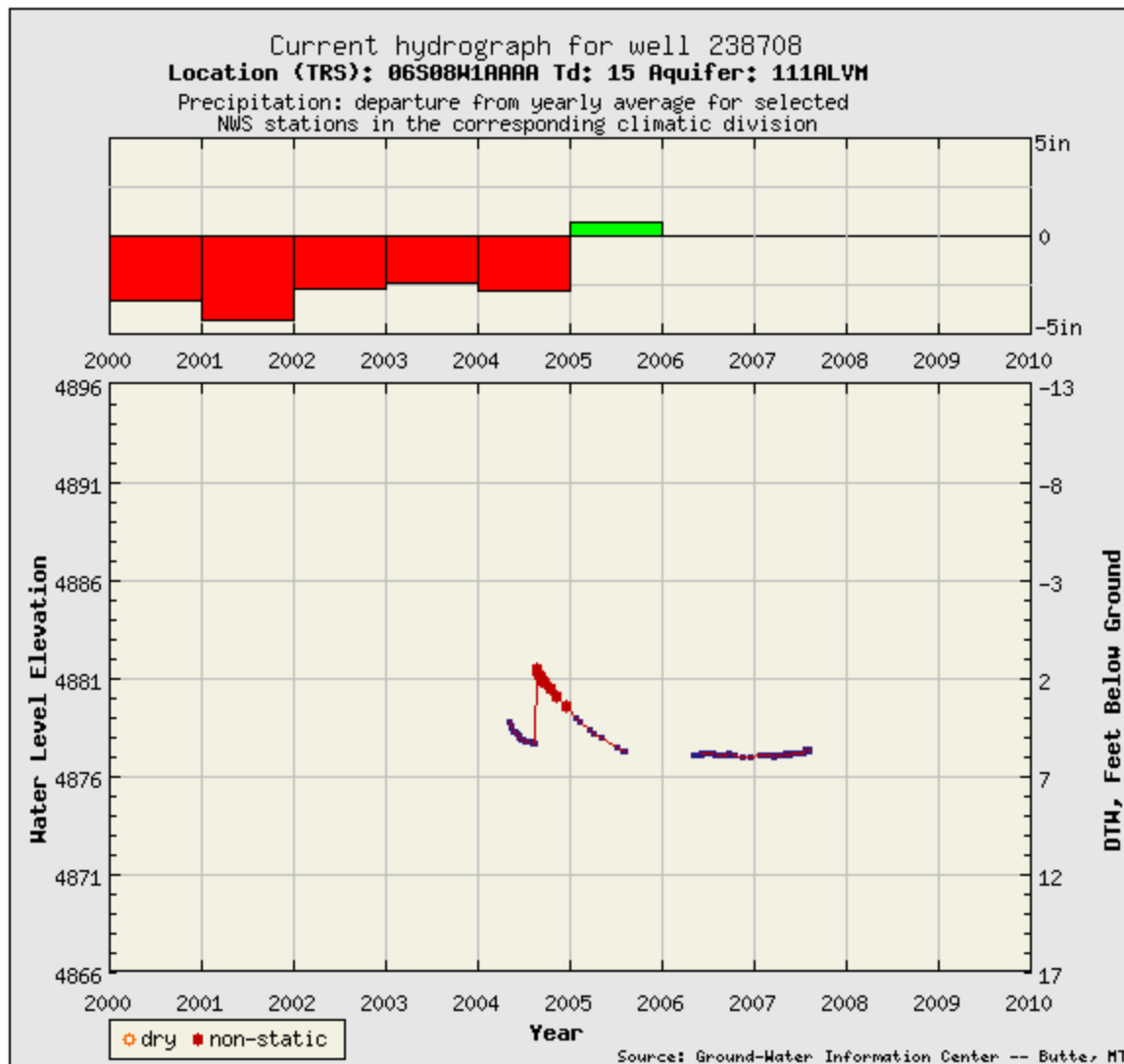
Period of Record: 5/6/2004 - 8/10/2007

[Get the data used to make this chart](#)

[View the one page site summary](#)

The preceding materials represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date [Saturday, October 20, 2007 4:26:06 PM] of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user at the time and date of the retrieval. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted. There may be wells in the request area that are not recorded at the Information Center.





GWIC Id: 238708

Site Name: GEODUCK LAND & CATTLE COMPANY * MW-04A (SHALLOW)

Location: 06S08W1AAAA

Total Depth: 15 feet

Number of Measurements: 86

Period of Record: 5/6/2004 - 8/10/2007

